

**WETLANDS DELINEATION REPORT  
BARITE HILLS NEVADA GOLD FIELDS  
MCCORMICK, MCCORMICK COUNTY, SOUTH CAROLINA  
TETRA TECH TDD NUMBER: TTEMI-05-003-0019**



Prepared for

**U.S. Environmental Protection Agency, Region 4**  
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March 2008

Prepared by



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## SECTION 1 INTRODUCTION

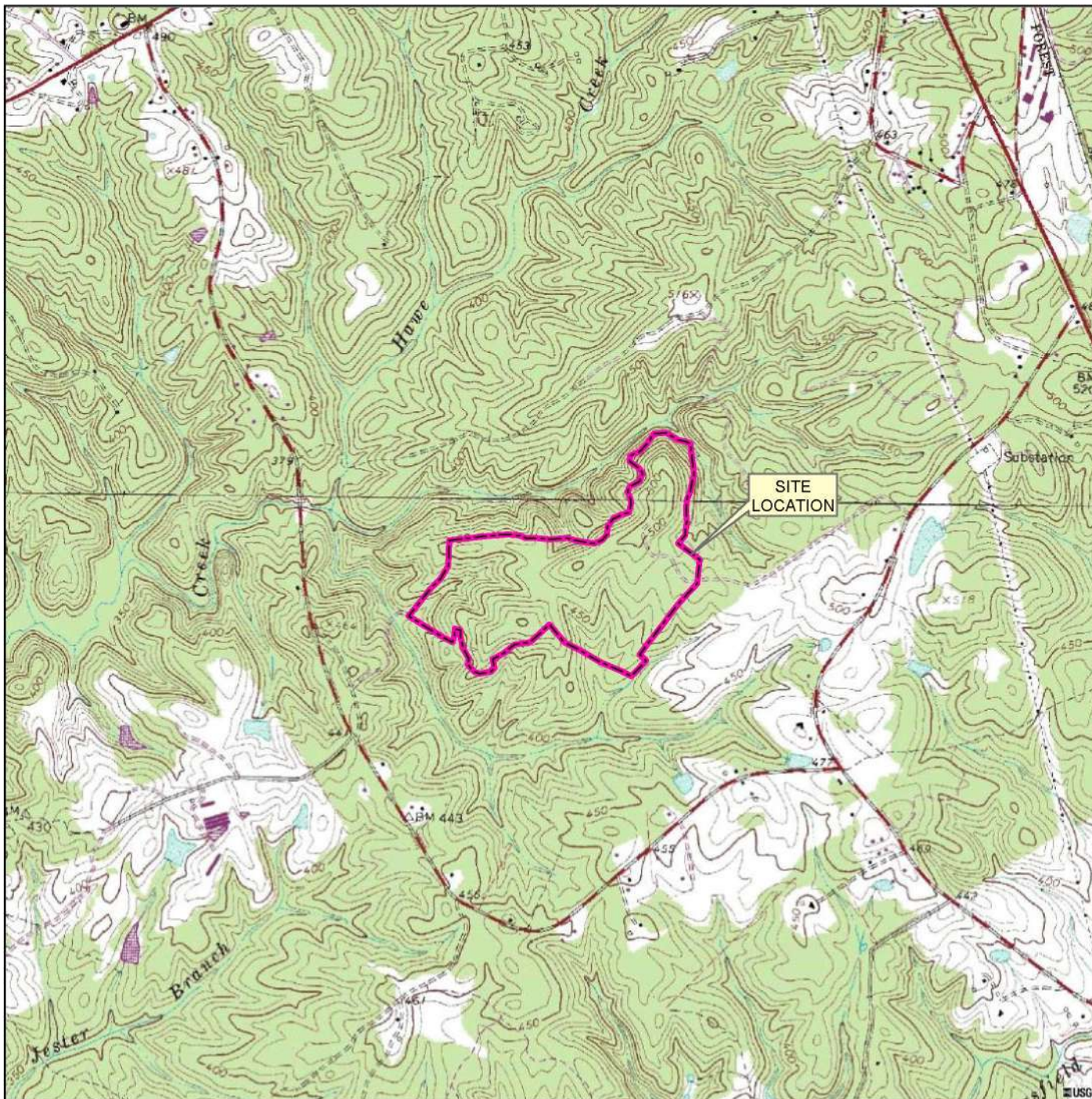
The U.S. Environmental Protection Agency (EPA) tasked the Tetra Tech Superfund Technical Assessment and Response Team (START) to conduct wetland delineations for the Barite Hills Nevada Gold Fields (Barite Hills) site located in McCormick, McCormick County, South Carolina (EPA Identification Number [No.] SCD987597903). Wetland delineations were completed under Contract No. EP-W-05-054, Technical Direction Document (TDD) No. TTEMI-05-003-0019. The objective of the wetlands delineation was to document whether the wetland area located along the unnamed tributary west of the Barite Hills property meets the Hazard Ranking System (HRS) eligibility requirement as defined by 40 Code of Federal Regulations (CFR) Section 230.3.

The former Barite Hills site encompasses about 795.2 acres and is located about 3 miles southwest of the town of McCormick on the northern side of secondary Highway S-33-30 and about 0.75 mile northwest of the intersection of Highways S-33-44 and S-33-30 in McCormick County, South Carolina (see Figure 1). The delineation was performed west of the Barite Hills site along an unnamed tributary of Hawe Creek, which consisted of approximately .76 acre and National Pollution Discharge Elimination System (NPDES) Outfall 1 where runoff from the site has a potential to impact the wetland area. The objectives of the delineation included mapping the existing jurisdictional wetlands, collecting surface water and sediment samples from the wetlands, evaluating target populations for the surface water migration pathway, and determining if the wetlands meet the Hazard Ranking System (HRS) wetland classification standards.

The Barite Hills site was actively mined for gold and silver from 1992 until 1995. Mining operations at the Barite Hills site encompassed 135.5 acres, and the remaining 659.7 acres served as a buffer zone not to be disturbed beyond its natural state. The Barite Hills site consists of two open mine pits, a process plant, a reusable heap leach facility, a permanent leach pad and permanent leach pad solutions ponds, two waste disposal areas, and diversion ditches that direct runoff off site. The wetland area has not been developed and has historically been forested land.

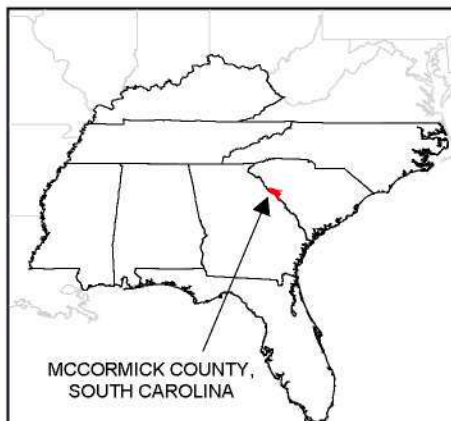
On June 12 and 13, 2007, a Tetra Tech environmental scientist, Mr. Kyle Russell, performed delineation of the wetlands, and a Tetra Tech environmental scientist, Shanna Davis, collected surface water and sediment samples along the wetland area to determine whether the wetlands had been affected by the





0 1,000 2,000  
Feet  
1:24,000

MAP SOURCE:  
USGS, MCCORMICK, SC  
& PLUM BRANCH, SC-GA  
TOPOGRAPHIC QUADRANGLES, 1987



United States Environmental Protection Agency

BARITE HILLS NEVADA GOLD FIELDS  
MCCORMICK,  
MCCORMICK COUNTY,  
SOUTH CAROLINA  
TDD No. TTEMI-05-003-0019

FIGURE 1  
SITE LOCATION



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FINAL

Barite Hills site. Surface water and sediment sampling results are addressed in the Expanded Site Inspection report prepared by Tetra Tech (2007). A Tetra Tech geographic information system specialist, Dale VonBusch, collected geographic positioning system (GPS) data points of the surface water and sediment sampling locations as well as of the wetland area outline.

The wetlands report was not prepared as part of a permit requirement; therefore, it was not submitted to the U.S. Army Corps of Engineers (USACE) and the South Carolina Department of Health and Environmental Control (SCDHEC) for wetland verification. The wetland area delineated as part of this study meets the requirements of HRS-eligible wetlands, as defined in 40 CFR 230.3.



## **SECTION 2 MATERIALS AND METHODS**

Wetlands at the Barite Hills site were delineated according to the USACE Wetlands Delineation Manual, dated January 1987, Technical Report Y-87-1, specifically Part IV, Section D, routine determination.

Wetland vegetation indicator status was determined by using the National List of Plant Species that Occur In Wetlands: Southeast (Region 2), dated May 1988, Biological Report 88(26.2). Soils on the site were identified using a Munsell Soil Color Chart (2000 Revised Washable Edition) and taxonomically verified by the Soil Survey of McCormick County, South Carolina (2004). Wetlands were delineated by using the three parameter approach, which includes verification of hydrophytic vegetation, hydric soils, and hydrology. Twelve routine wetland delineation field sheets were completed (see Appendix A).

Aerial photographs and soil maps were reviewed prior to delineating the wetland boundary to gain insight into the potential locations of distinct wetlands. Upon completion of the review, the site was traversed to characterize wetland and upland areas. Once the wetland and upland areas were characterized, the boundary of the wetland was identified in the transition zone between wetlands and uplands. The wetland boundary was flagged with fluorescent flagging tape and red pin flags labeled according to the field sheet numbering, and GPS coordinates were collected.

## SECTION 3 RESULTS AND DISCUSSION

One main non-isolated wetland was identified adjacent to the Barite Hills site. The wetland is located along an unnamed tributary of Hawe Creek which flows from south to north. Eleven samples were collected along the perimeter of the wetland, and one sample was collected outside to delineate between hydric and non-hydric soils. According to the national wetlands inventory, the wetland is a palustrine forested wetland and meets the Title 40 Code of Federal Regulations Section 230.3 definition of an HRS wetland. Table 1 summarizes the wetland area delineated. Figure 2 presents the delineated wetland area.

**TABLE 1: DELINEATED WETLAND AT BARITE HILLS**

<b>Wetland Area (Map ID)</b>	<b>Location</b>	<b>Type</b>	<b>Soils</b>	<b>Acreage (approximate)</b>	<b>Atypical Situation</b>
1	West of the Barite Hills site	Forested	Cartecay, Toccoa	0.76	Not applicable

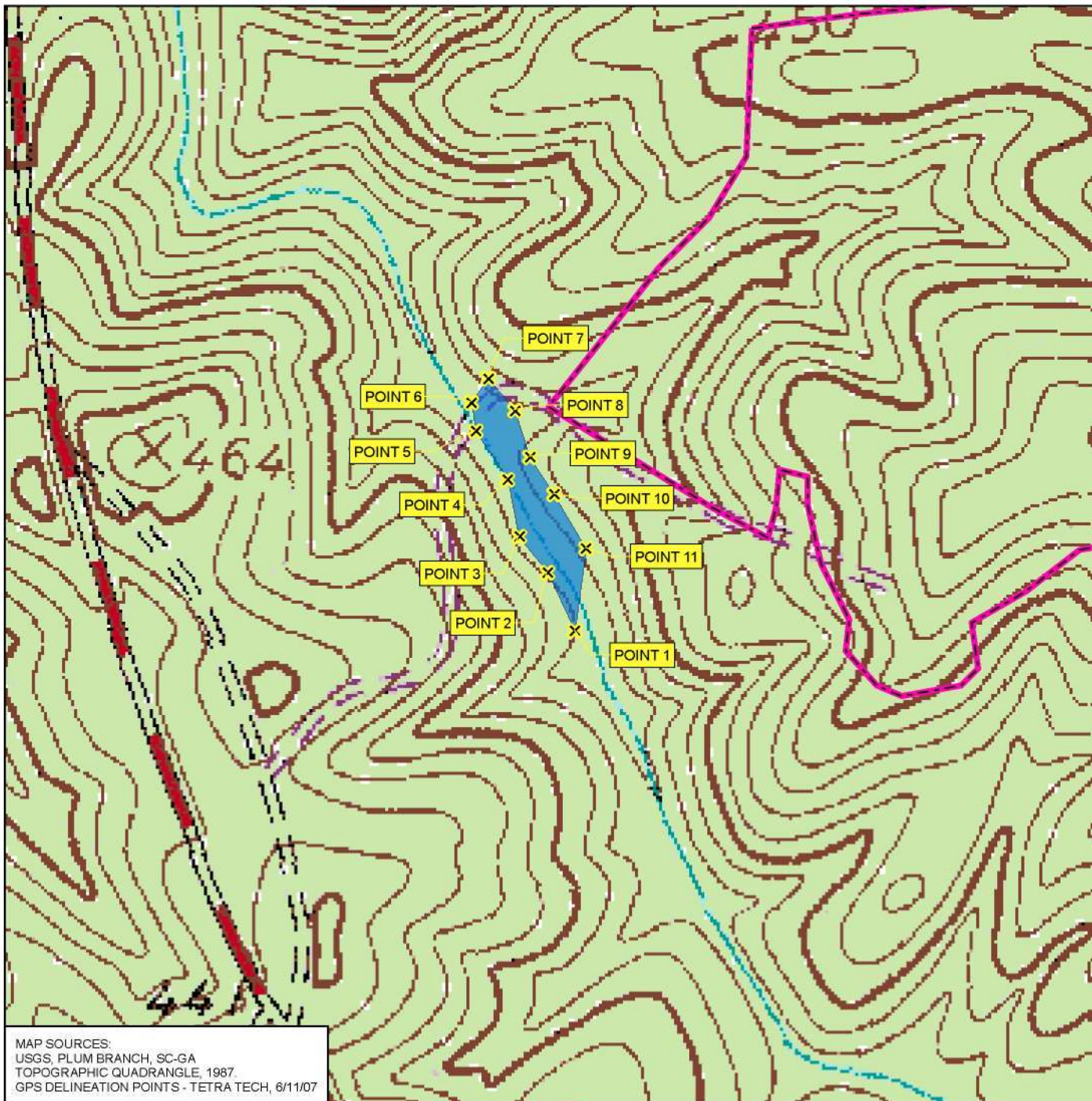
### 3.1 SOILS

The U.S. Department of Agriculture, Soil Conservation Service Soil Survey for McCormick County (2001) was used to evaluate the presence of hydric soils. The soil survey is presented on Figure 3.

According to the soil survey the following types of soils were identified near the Barite Hills site:

- Cartecay (Ca) – Coarse-loamy, 0 to 2 percent slope, somewhat poorly drained with a high water table
- Toccoa (Ca) – Coarse loamy, 0 to 4 percent slope, well drained to moderately well drained, 2- to 5-foot perched water table
- Georgeville (GaB) – Fine, well drained with moderate permeability, 2 to 6 percent slopes
- Goldston (GoD) – Loamy, 6 to 15 percent slope, and well drained to excessively drained soils with a greater than 6-foot perched water table
- Herndon (HrC) – Fine, 6 to 10 percent slopes, well drained with moderately permeable soils with a 6-foot water table

Of these soil types only Cartecay and Toccoa are listed on the National Hydric Soils List. Cartecay soils are on nearly level flood plains in narrow valleys of streams. The Cartecay soils series occur along the unnamed tributary of Hawe Creek where the wetland is located.



MAP SOURCES:  
USGS, PLUM BRANCH, SC-GA  
TOPOGRAPHIC QUADRANGLE, 1987.  
GPS DELINEATION POINTS - TETRA TECH, 6/11/07

### LEGEND

- WETLAND DELINEATION POINT
- DELINEATED WETLAND AREA
- SITE BOUNDARY

NOTES:  
Boundary of wetland area is based  
on 11 GPS points collected in the field.  
GPS - Global Positioning System.

0 200 400  
Feet  
1:4,800



United States Environmental Protection Agency

BARITE HILLS NEVADA GOLD FIELDS  
MCCORMICK,  
MCCORMICK COUNTY,  
SOUTH CAROLINA  
TDD No. TTEMI-05-003-0019

**FIGURE 2**  
**WETLAND DELINEATION**







### 3.2 DELINEATED WETLAND AREAS

The wetland area as identified on Figure 2, is located west of the Barite Hills site, near NPDES Outfall 1, and is influenced primarily from an unnamed tributary of Hawe Creek. Mapped soils in these areas primarily consist of Cartecay, Toccoa, and Georgeville, with some Goldston, and Herndon occurring, as well. Hydric soils identified in the field consisted of soil chromas that ranged from 10YR 4/3, brown, with no mottling to a 10YR 4/3, yellowish brown, with 10 to 15 percent mottling (see Appendix A). Non-hydric soils consisted of a soil chroma that was in the range of 5YR 4/3 with a weak to medium granular structure. Vegetation consisted of mixed forested, scrub-shrub, and emergent in the wetland area. Forested vegetation in the wetlands was very similar between upland and wetland areas, primarily being dominated by Carolina Ash (*Fraxinus caroliniana*), Sugar Maple (*Acer saccharum*), common greenbriar (*Smilax rotundifolia*), poison ivy (*Toxicodendron radicans*), Tulip Poplar (*Liriodendron tulipifera*), Sweet Gum (*Liquidambar styraciflua*) and Chinese Privet (*Ligustrum sinense*). Transitional areas were defined by the presence of hydrologic indicators, such as water marks on trees and presence of drainage patterns, inundated soils, and facultative neutral testing.

## **SECTION 4 CONCLUSIONS**

The total area delineated consists of 0.76 acre of wetlands to the west of the Barite Hills site. Several minor tributaries and wet weather conveyances occur near the wetland. Soils were typical wetland soils for the area with low chromas and bright mottles. Soils identified during the delineation primarily confirmed the soil survey mapping unit. It is noted that the wetland does fit the characterization of an HRS wetland; specifically it is identified as a palustrine forested wetland. The areas where wetlands occurred were primarily within the Cartecay soils and to a lower extent in the Toccoa soils. Hydrology for the wetland area was impacted by surface water runoff, via sheet flow through various drainage creeks or wet weather conveyances, as well as high water tables.

The wetlands report was not prepared as part of a permit requirement; therefore, it was not submitted to the USACE and SCDHEC for wetland verification. The wetland area delineated as part of this study meets the requirements of HRS eligible wetlands, as defined in 40 CFR 230.3.

In October 1989, Barite Hills obtained a Nationwide 26 permit which authorized the discharge into nontidal waters with a flow rate of less than 5 cubic feet per second. Specifically, the permit authorized the fill of isolated wetlands that would affect less than 10 acres provided that a wetland reclamation/creation plan was implemented. In 1994, the Nationwide 26 permit was not renewed by Barite Hills since no additional wetland would be affected. In July 1999, Barite Hills filed for Chapter 11 bankruptcy, and in July of the same year, the keys to Barite Hills were given to SCDHEC and the site was abandoned. Since no operations exist at the site, a 404 permit is not required at this time.

Impacts to the aquatic and terrestrial life were not studied during this event. However, ESI surface water and sediment sample results indicated the presence of arsenic, cadmium, chromium, copper, lead, and zinc at elevated concentrations. Therefore, it should be assumed that impacts to wildlife could be present.



## **SECTION 5 REFERENCES**

Munsell Color Company. 2000. Munsell Soil Color Charts, Revised Washable Edition. Baltimore: Munsell Color Company.

Reed, P. B. 1988. "National List of Plant Species that Occur In Wetlands: Southeast (Region 2)." Biological Report 88 (26.2). National Ecology Research Center, U. S. Fish and Wildlife Service.

Tetra Tech EM Inc. 2007. Expanded Site Inspection Report for Barite Hills Nevada Gold Fields, McCormick, McCormick County, South Carolina.

U.S. Department of Agriculture. National Resource Conservation Service. 2004. Soil Survey of McCormick County, South Carolina.

U.S. Army Corps of Engineers. 1987. Wetlands Delineation Manual. Technical Report Y-87-1. Part IV, Section D. January.

U.S. Department of Agriculture. 2001. Soil Conservation Service Soil Survey for McCormick County.

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FINAL

**APPENDIX A**  
**FIELD DATA SHEETS**  
**(WTD-1 THROUGH WTD-12)**

<b>Project / Site:</b>	Barite Hills Nevada Gold Fields	<b>Date:</b>	6/12/07		
<b>Applicant / Owner:</b>	USEPA	<b>State:</b>	South Carolina		
<b>Investigator:</b>	Kyle Russell	<b>County:</b>	McCormick		
<b>Plot ID:</b>		<b>Do Normal Circumstances exist on site?</b>	X	YES	NO
<b>Transect ID:</b>	N/A	<b>Atypical Situation?</b>		YES	X NO
<b>Community ID:</b>	N/A	<b>Is the area a potential problem area?</b>		YES	X NO
<b>Remarks (use reverse side, if needed):</b> Point labeled as WTD-1, 1256PM					

#### VEGETATION

Dominant Plant Species		Indicator	Stratum	Dominant Plant Species		Indicator	Stratum
1.	<i>Carolina Ash</i>	OBL	T	6.	Common Green brier	V	FAC
2.	<i>Sugar Maple</i>	FACW	T	7.	Tulip Poplar	T	FACU
3.	<i>American Beauty Berry</i>	FACU-	SS	8.	Sycamore	T	FACW-
4.	<i>Chinese Privet</i>	FAC	SS	9.	Sweet Gum	T	FAC+
5.	<i>Poison Ivy</i>	FAC	V	10.	River Birch	T	FACW
<b>Percent of Dominant Species = OBL, FACW, or FAC (excluding FAC-)</b>		7/10 =70%					
<b>Remarks:</b>		A prevalence of hydrophytic vegetation is present					

#### HYDROLOGY

Recorded Data (describe in remarks)		WETLAND HYDROLOGY INDICATORS			
		Primary Indicators:		Secondary Indicators:	
Gauge		Inundated Saturated (upper 12") Water Marks Drift Lines Sediment Deposits Drainage Patterns		Oxidized Root Channels	
Aerial Photograph				Water-stained Leaves	X
Other				Local Soil Survey Data	X
No Recorded Data Available	X			FAC-Neutral Test	X
Depth of Surface Water (inches)	n/a			Other (see remarks)	
Depth to Water in Pit (inches)	0				
Depth to Saturated Soil (inches)	0				
<b>Remarks:</b>		Wetland hydrology is present			

#### SOILS

Series / Phase:		Cartecay		Confirmed Map Type?		Yes
Drainage Class:		Poorly Drained		Subgroup:		Aquic Udifluvents
Depth (inches)	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture / Concretions...	Indicators
0-5	Ap	10YR 4/3			Loam	Sulfitic Odor
5-10	Ap	7.5YR 5/6			Loam	Low Chroma / Gleyed Color
10-12	C1	10YR 5/4	10 YR3/3	few	Sandy loam	Hydric Soils List (local / US)
						Concretions
						Organic Streaking
						Other (see remarks)
<b>Remarks:</b>						

#### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	X	Yes	No		Is this sampling point in a wetland?	X	Yes	No
Wetland Hydrology Present?	X	Yes	No					
Hydric Soils Present?	X	Yes	No					
<b>Remarks:</b> The soils were observed to be saturated and poorly drained. Hydric soils are present								



<b>Project / Site:</b>	Barite Hills Nevada Gold Fields	<b>Date:</b>	6/12/07		
<b>Applicant / Owner:</b>	USEPA	<b>State:</b>	South Carolina		
<b>Investigator:</b>	Kyle Russell	<b>County:</b>	McCormick		
<b>Plot ID:</b>		<b>Do Normal Circumstances exist on site?</b>	X	YES	NO
<b>Transect ID:</b>	N/A	<b>Atypical Situation?</b>		YES	X NO
<b>Community ID:</b>	N/A	<b>Is the area a potential problem area?</b>		YES	X NO
<b>Remarks (use reverse side, if needed):</b> Point labeled as WTD-2, 1302PM					

#### VEGETATION

Dominant Plant Species		Indicator	Stratum	Dominant Plant Species		Indicator	Stratum
1.	<i>Carolina Ash</i>	OBL	T	6.	Common Green brier	V	FAC
2.	<i>Sugar Maple</i>	FACW	T	7.	Tulip Poplar	T	FACU
3.	<i>American Beauty Berry</i>	FACU-	SS	8.	Sycamore	T	FACW-
4.	<i>Chinese Privet</i>	FAC	SS	9.	Sweet Gum	T	FAC+
5.	<i>Poison Ivy</i>	FAC	V	10.	River Birch	T	FACW
<b>Percent of Dominant Species = OBL, FACW, or FAC (excluding FAC-)</b>		7/10=70%					
<b>Remarks:</b>		A prevalence of hydrophytic vegetation is present					

#### HYDROLOGY

Recorded Data (describe in remarks)		WETLAND HYDROLOGY INDICATORS			
		Primary Indicators:		Secondary Indicators:	
Gauge		Inundated Saturated (upper 12") Water Marks Drift Lines Sediment Deposits Drainage Patterns		Oxidized Root Channels	
Aerial Photograph				Water-stained Leaves	X
Other				Local Soil Survey Data	X
No Recorded Data Available	X			FAC-Neutral Test	X
Depth of Surface Water (inches)	n/a			Other (see remarks)	
Depth to Water in Pit (inches)	0				
Depth to Saturated Soil (inches)	0				
<b>Remarks:</b>		Wetland hydrology is present			

#### SOILS

Series / Phase:		Cartecay		Confirmed Map Type?		Yes
Drainage Class:		Poorly Drained		Subgroup:		Aquic Udifluvents
Depth (inches)	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture / Concretions...	Indicators
0-5	Ap	10YR 4/3			Loam	Sulfidic Odor
5-10	Ap	7.5YR 5/6			Loam	Low Chroma / Gleyed Color
10-12	C1	10YR 5/4	10 YR3/3	few	Sandy loam	Hydric Soils List (local / US)
						Concretions
						Organic Streaking
						Other (see remarks)
<b>Remarks:</b>						

#### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	X	Yes	No		Is this sampling point in a wetland?	X	Yes	No
Wetland Hydrology Present?	X	Yes	No					
Hydric Soils Present?	X	Yes	No					
<b>Remarks:</b> The soils were observed to be saturated and poorly drained. Hydric soils are present								

<b>Project / Site:</b>	Barite Hills Nevada Gold Fields	<b>Date:</b>	6/12/07			
<b>Applicant / Owner:</b>	USEPA	<b>State:</b>	South Carolina			
<b>Investigator:</b>	Kyle Russell	<b>County:</b>	McCormick			
<b>Plot ID:</b>		<b>Do Normal Circumstances exist on site?</b>	X	YES		NO
<b>Transect ID:</b>	N/A	<b>Atypical Situation?</b>		YES	X	NO
<b>Community ID:</b>	N/A	<b>Is the area a potential problem area?</b>		YES	X	NO
<b>Remarks (use reverse side, if needed):</b>		Point labeled as WTD-3, 1309PM, Southern Leopard Frog spotted				

#### VEGETATION

Dominant Plant Species		Indicator	Stratum	Dominant Plant Species		Indicator	Stratum
1.	<i>Carolina Ash</i>	OBL	T	6.	Common Green brier	V	FAC
2.	<i>Sugar Maple</i>	FACW	T	7.	Tulip Poplar	T	FACU
3.	<i>American Beauty Berry</i>	FACU-	SS	8.	Sycamore	T	FACW-
4.	<i>Chinese Privet</i>	FAC	SS	9.	Sweet Gum	T	FAC+
5.	<i>Poison Ivy</i>	FAC	V	10.	River Birch	T	FACW
<b>Percent of Dominant Species = OBL, FACW, or FAC (excluding FAC-)</b>		7/10-70%					
<b>Remarks:</b>		A prevalence of hydrophytic vegetation is present					

#### HYDROLOGY

Recorded Data (describe in remarks)		WETLAND HYDROLOGY INDICATORS			
		Primary Indicators:		Secondary Indicators:	
Gauge		Inundated Saturated (upper 12") Water Marks Drift Lines Sediment Deposits Drainage Patterns		Oxidized Root Channels	
Aerial Photograph				Water-stained Leaves	X
Other				Local Soil Survey Data	X
No Recorded Data Available	X			FAC-Neutral Test	X
Depth of Surface Water (inches)	n/a			Other (see remarks)	
Depth to Water in Pit (inches)	0				
Depth to Saturated Soil (inches)	0				
<b>Remarks:</b>		Wetland hydrology is present			

#### SOILS

Series / Phase:		Cartecay		Confirmed Map Type?		Yes	
Drainage Class:		Poorly Drained		Subgroup:		Aquic Udifluvents	
Depth (inches)	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture / Concretions...	Indicators	
0-5	Ap	10YR 4/3			Loam	Sulfitic Odor	X
5-10	Ap	7.5YR 5/6			Loam	Low Chroma / Gleyed Color	X
10-12	C1	10YR 5/4	10 YR3/3	common	Sandy loam	Hydric Soils List (local / US)	
						Concretions	
						Organic Streaking	
						Other (see remarks)	
<b>Remarks:</b>							

#### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	X	Yes		No		Is this sampling point in a wetland?	X	Yes		No	
Wetland Hydrology Present?	X	Yes		No							
Hydric Soils Present?	X	Yes		No							
<b>Remarks:</b>		The soils were observed to be saturated and poorly drained. Hydric soils are present									

<b>Project / Site:</b>	Barite Hills Nevada Gold Fields	<b>Date:</b>	6/12/07			
<b>Applicant / Owner:</b>	USEPA	<b>State:</b>	South Carolina			
<b>Investigator:</b>	Kyle Russell	<b>County:</b>	McCormick			
<b>Plot ID:</b>		<b>Do Normal Circumstances exist on site?</b>	X	YES		NO
<b>Transect ID:</b>	N/A	<b>Atypical Situation?</b>		YES	X	NO
<b>Community ID:</b>	N/A	<b>Is the area a potential problem area?</b>		YES	X	NO
<b>Remarks (use reverse side, if needed):</b> Point labeled as WTD-4, 1319PM						

#### VEGETATION

Dominant Plant Species		Indicator	Stratum	Dominant Plant Species		Indicator	Stratum
1.	<i>Carolina Ash</i>	OBL	T	6.	Common Green brier	V	FAC
2.	<i>Sugar Maple</i>	FACW	T	7.	Tulip Poplar	T	FACU
3.	<i>American Beauty Berry</i>	FACU-	SS	8.	Sycamore	T	FACW-
4.	<i>Chinese Privet</i>	FAC	SS	9.	Sweet Gum	T	FAC+
5.	<i>Poison Ivy</i>	FAC	V	10.	River Birch	T	FACW
<b>Percent of Dominant Species = OBL, FACW, or FAC (excluding FAC-)</b>		7/10=70%					
<b>Remarks:</b>		A prevalence of hydrophytic vegetation is present					

#### HYDROLOGY

Recorded Data (describe in remarks)		WETLAND HYDROLOGY INDICATORS			
		Primary Indicators:		Secondary Indicators:	
Gauge		Inundated Saturated (upper 12") Water Marks Drift Lines Sediment Deposits Drainage Patterns		Oxidized Root Channels	
Aerial Photograph				Water-stained Leaves	X
Other				Local Soil Survey Data	X
No Recorded Data Available	X			FAC-Neutral Test	X
Depth of Surface Water (inches)	n/a			Other (see remarks)	
Depth to Water in Pit (inches)	0				
Depth to Saturated Soil (inches)	0				
<b>Remarks:</b>		Wetland hydrology is present			

#### SOILS

Series / Phase:		Cartecay		Confirmed Map Type?		Yes	
Drainage Class:		Poorly Drained		Subgroup:		Aquic Udifluvents	
Depth (inches)	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture / Concretions...	Indicators	
0-5	Ap	10YR 4/3	-----	-----	Loam	Sulfidic Odor	X
5-10	Ap	7.5YR 5/6	-----	-----	Loam	Low Chroma / Gleyed Color	X
10-12	C1	10YR 6/3	-----	-----	Sandy loam	Hydric Soils List (local / US)	
						Concretions	
						Organic Streaking	
						Other (see remarks)	
<b>Remarks:</b>							

#### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	X	Yes		No		Is this sampling point in a wetland?	X	Yes		No
Wetland Hydrology Present?	X	Yes		No						
Hydric Soils Present?	X	Yes		No						
<b>Remarks:</b>		The soils were observed to be saturated and poorly drained. Hydric soils are present								



<b>Project / Site:</b>	Barite Hills Nevada Gold Fields	<b>Date:</b>	6/12/07		
<b>Applicant / Owner:</b>	USEPA	<b>State:</b>	South Carolina		
<b>Investigator:</b>	Kyle Russell	<b>County:</b>	McCormick		
<b>Plot ID:</b>		<b>Do Normal Circumstances exist on site?</b>	X	YES	NO
<b>Transect ID:</b>	N/A	<b>Atypical Situation?</b>		YES	X NO
<b>Community ID:</b>	N/A	<b>Is the area a potential problem area?</b>		YES	X NO
<b>Remarks (use reverse side, if needed):</b> Point labeled as WTD-5, 1324PM, a sheen on the water was noted at the point					

#### VEGETATION

Dominant Plant Species		Indicator	Stratum	Dominant Plant Species		Indicator	Stratum
1.	<i>Carolina Ash</i>	OBL	T	6.	Common Green brier	V	FAC
2.	<i>Sugar Maple</i>	FACW	T	7.	Tulip Poplar	T	FACU
3.	<i>American Beauty Berry</i>	FACU-	SS	8.	Sycamore	T	FACW-
4.	<i>Chinese Privet</i>	FAC	SS	9.	Sweet Gum	T	FAC+
5.	<i>Poison Ivy</i>	FAC	V	10.	River Birch	T	FACW
<b>Percent of Dominant Species = OBL, FACW, or FAC (excluding FAC-)</b>		7/10=70%					
<b>Remarks:</b>		A prevalence of hydrophytic vegetation is present					

#### HYDROLOGY

Recorded Data (describe in remarks)		WETLAND HYDROLOGY INDICATORS			
		Primary Indicators:		Secondary Indicators:	
Gauge		Inundated		Oxidized Root Channels	
Aerial Photograph		Saturated (upper 12")		Water-stained Leaves	X
Other		Water Marks		Local Soil Survey Data	X
No Recorded Data Available	X	Drift Lines		FAC-Neutral Test	X
Depth of Surface Water (inches)	5	Sediment Deposits		Other (see remarks)	
Depth to Water in Pit (inches)	0	Drainage Patterns			
Depth to Saturated Soil (inches)	0				
<b>Remarks:</b>		Wetland hydrology is present			

#### SOILS

Series / Phase:		Cartecay		Confirmed Map Type?		Yes	
Drainage Class:		Poorly Drained		Subgroup:		Aquic Udifluvents	
Depth (inches)	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture / Concretions...	Indicators	
0-5	Ap	10YR 4/3	-----	-----	Loam	Sulfitic Odor	X
5-10	Ap	7.5YR 5/6	-----	-----	Loam	Low Chroma / Gleyed Color	X
10-12	C1	10YR 6/3	-----	-----	Sandy loam	Hydric Soils List (local / US)	
						Concretions	
						Organic Streaking	
						Other (see remarks)	
<b>Remarks:</b>							

#### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	X	Yes	No		Is this sampling point in a wetland?	X	Yes	No
Wetland Hydrology Present?	X	Yes	No					
Hydric Soils Present?	X	Yes	No					
<b>Remarks:</b>		The soils were observed to be saturated and poorly drained. Hydric soils are present						

<b>Project / Site:</b>	Barite Hills Nevada Gold Fields	<b>Date:</b>	6/12/07		
<b>Applicant / Owner:</b>	USEPA	<b>State:</b>	South Carolina		
<b>Investigator:</b>	Kyle Russell	<b>County:</b>	McCormick		
<b>Plot ID:</b>		<b>Do Normal Circumstances exist on site?</b>	X	YES	NO
<b>Transect ID:</b>	N/A	<b>Atypical Situation?</b>		YES	X NO
<b>Community ID:</b>	N/A	<b>Is the area a potential problem area?</b>		YES	X NO
<b>Remarks (use reverse side, if needed):</b> Point labeled as WTD-6, 1334PM, a sheen on the water was noted at the point					

#### VEGETATION

Dominant Plant Species		Indicator	Stratum	Dominant Plant Species		Indicator	Stratum
1.	<i>Carolina Ash</i>	OBL	T	6.	Common Green brier	V	FAC
2.	<i>Sugar Maple</i>	FACW	T	7.	Tulip Poplar	T	FACU
3.	<i>American Beauty Berry</i>	FACU-	SS	8.	Sycamore	T	FACW-
4.	<i>Chinese Privet</i>	FAC	SS	9.	Sweet Gum	T	FAC+
5.	<i>Poison Ivy</i>	FAC	V	10.			
<b>Percent of Dominant Species = OBL, FACW, or FAC (excluding FAC-)</b>		6/9=66%					
<b>Remarks:</b> A prevalence of hydrophytic vegetation is present							

#### HYDROLOGY

Recorded Data (describe in remarks)		WETLAND HYDROLOGY INDICATORS			
		Primary Indicators:		Secondary Indicators:	
Gauge		Inundated		Oxidized Root Channels	
Aerial Photograph		Saturated (upper 12")		Water-stained Leaves	X
Other		Water Marks		Local Soil Survey Data	X
No Recorded Data Available	X	Drift Lines		FAC-Neutral Test	X
Depth of Surface Water (inches)	13	Sediment Deposits		Other (see remarks)	
Depth to Water in Pit (inches)	0	Drainage Patterns	X		
Depth to Saturated Soil (inches)	0				
<b>Remarks:</b> Wetland hydrology is present					

#### SOILS

Series / Phase:		Cartecay		Confirmed Map Type?		Yes
Drainage Class:		Poorly Drained		Subgroup:		Aquic Udifluvents
Depth (inches)	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture / Concretions...	Indicators
0-5	Ap	10YR 4/3			Loam	Sulfitic Odor
5-12	Ap	7.5YR 4/1			Loam	Low Chroma / Gleyed Color
						Hydric Soils List (local / US)
						Concretions
						Organic Streaking
						Other (see remarks)
<b>Remarks:</b>						

#### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	X	Yes	No		Is this sampling point in a wetland?	X	Yes	No
Wetland Hydrology Present?	X	Yes	No					
Hydric Soils Present?	X	Yes	No					
<b>Remarks:</b> The soils were observed to be saturated and poorly drained. Hydric soils are present								

<b>Project / Site:</b>	Barite Hills Nevada Gold Fields	<b>Date:</b>	6/12/07		
<b>Applicant / Owner:</b>	USEPA	<b>State:</b>	South Carolina		
<b>Investigator:</b>	Kyle Russell	<b>County:</b>	McCormick		
<b>Plot ID:</b>		<b>Do Normal Circumstances exist on site?</b>	X	YES	NO
<b>Transect ID:</b>	N/A	<b>Atypical Situation?</b>		YES	X NO
<b>Community ID:</b>	N/A	<b>Is the area a potential problem area?</b>		YES	X NO
<b>Remarks (use reverse side, if needed):</b> Point labeled as WTD-7, 1510PM					

#### VEGETATION

Dominant Plant Species		Indicator	Stratum	Dominant Plant Species		Indicator	Stratum
1.	<i>Carolina Ash</i>	OBL	T	6.	Common Green brier	V	FAC
2.	<i>Sugar Maple</i>	FACW	T	7.	Tulip Poplar	T	FACU
3.	<i>American Beauty Berry</i>	FACU-	SS	8.	Sweet Gum	T	FAC+
4.	<i>Chinese Privet</i>	FAC	SS	9.			
5.	<i>Poison Ivy</i>	FAC	V	10.			
<b>Percent of Dominant Species = OBL, FACW, or FAC (excluding FAC-)</b>		6/8=75%					
<b>Remarks:</b> A prevalence of hydrophytic vegetation is present							

#### HYDROLOGY

Recorded Data (describe in remarks)		WETLAND HYDROLOGY INDICATORS			
		Primary Indicators:		Secondary Indicators:	
Gauge		Inundated		Oxidized Root Channels	
Aerial Photograph		Saturated (upper 12")		Water-stained Leaves	X
Other		Water Marks		Local Soil Survey Data	X
No Recorded Data Available	X	Drift Lines		FAC-Neutral Test	X
Depth of Surface Water (inches)	n/a	Sediment Deposits		Other (see remarks)	
Depth to Water in Pit (inches)	0	Drainage Patterns	X		
Depth to Saturated Soil (inches)	0				
<b>Remarks:</b> Wetland hydrology is present					

#### SOILS

Series / Phase:		Cartecay		Confirmed Map Type?		Yes
Drainage Class:		Poorly Drained		Subgroup:		Aquic Udifluvents
Depth (inches)	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture / Concretions...	Indicators
0-5	Ap	10YR 4/3			Loam	Sulfidic Odor
5-12	Ap	7.5YR 4/1			Loam	Low Chroma / Gleyed Color
						Hydric Soils List (local / US)
						Concretions
						Organic Streaking
						Other (see remarks)
<b>Remarks:</b>						

#### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	X	Yes	No		Is this sampling point in a wetland?	X	Yes	No
Wetland Hydrology Present?	X	Yes	No					
Hydric Soils Present?	X	Yes	No					
<b>Remarks:</b> The soils were observed to be saturated and poorly drained. Hydric soils are present								

<b>Project / Site:</b>	Barite Hills Nevada Gold Fields	<b>Date:</b>	6/12/07			
<b>Applicant / Owner:</b>	USEPA	<b>State:</b>	South Carolina			
<b>Investigator:</b>	Kyle Russell	<b>County:</b>	McCormick			
<b>Plot ID:</b>		<b>Do Normal Circumstances exist on site?</b>	X	YES		NO
<b>Transect ID:</b>	N/A	<b>Atypical Situation?</b>		YES	X	NO
<b>Community ID:</b>	N/A	<b>Is the area a potential problem area?</b>		YES	X	NO
<b>Remarks (use reverse side, if needed):</b>		Point labeled as WTD-8 1525PM, unidentified fish species spotted in water				

#### VEGETATION

Dominant Plant Species		Indicator	Stratum	Dominant Plant Species		Indicator	Stratum
1.	<i>Carolina Ash</i>	OBL	T	6.	Common Green brier	V	FAC
2.	<i>Sugar Maple</i>	FACW	T	7.	Tulip Poplar	T	FACU
3.	<i>American Beauty Berry</i>	FACU-	SS	8.	Sweet Gum	T	FAC+
4.	<i>Chinese Privet</i>	FAC	SS	9.			
5.	<i>Poison Ivy</i>	FAC	V	10.			
<b>Percent of Dominant Species = OBL, FACW, or FAC (excluding FAC-)</b>		6/8=75%					
<b>Remarks:</b>		A prevalence of hydrophytic vegetation is present					

#### HYDROLOGY

Recorded Data (describe in remarks)		WETLAND HYDROLOGY INDICATORS			
		Primary Indicators:		Secondary Indicators:	
Gauge		Inundated		Oxidized Root Channels	
Aerial Photograph		Saturated (upper 12")		Water-stained Leaves	X
Other		Water Marks		Local Soil Survey Data	X
No Recorded Data Available	X	Drift Lines		FAC-Neutral Test	X
Depth of Surface Water (inches)	12	Sediment Deposits		Other (see remarks)	
Depth to Water in Pit (inches)	0	Drainage Patterns	X		
Depth to Saturated Soil (inches)	0				
<b>Remarks:</b>		Wetland hydrology is present			

#### SOILS

Series / Phase:		Cartecay		Confirmed Map Type?		Yes	
Drainage Class:		Poorly Drained		Subgroup:		Aquic Udifluvents	
Depth (inches)	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture / Concretions...	Indicators	
0-5	Ap	10YR 4/3			Loam	Sulfitic Odor	X
5-12	Ap	7.5YR 4/1			Loam	Low Chroma / Gleyed Color	X
						Hydric Soils List (local / US)	
						Concretions	
						Organic Streaking	
						Other (see remarks)	
<b>Remarks:</b>							

#### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	X	Yes		No		Is this sampling point in a wetland?	X	Yes		No
Wetland Hydrology Present?	X	Yes		No						
Hydric Soils Present?	X	Yes		No						
<b>Remarks:</b>		The soils were observed to be saturated and poorly drained. Hydric soils are present								



<b>Project / Site:</b>	Barite Hills Nevada Gold Fields	<b>Date:</b>	6/12/07			
<b>Applicant / Owner:</b>	USEPA	<b>State:</b>	South Carolina			
<b>Investigator:</b>	Kyle Russell	<b>County:</b>	McCormick			
<b>Plot ID:</b>		<b>Do Normal Circumstances exist on site?</b>	X	YES		NO
<b>Transect ID:</b>	N/A	<b>Atypical Situation?</b>		YES	X	NO
<b>Community ID:</b>	N/A	<b>Is the area a potential problem area?</b>		YES	X	NO
<b>Remarks (use reverse side, if needed):</b>		Point labeled as WTD-9 1537PM, beaver dam present in wetland				

#### VEGETATION

Dominant Plant Species		Indicator	Stratum	Dominant Plant Species		Indicator	Stratum
1.	<i>Carolina Ash</i>	OBL	T	6.	Common Green brier	V	FAC
2.	<i>Sugar Maple</i>	FACW	T	7.	Tulip Poplar	T	FACU
3.	<i>American Beauty Berry</i>	FACU-	SS	8.	Sweet Gum	T	FAC+
4.	<i>Chinese Privet</i>	FAC	SS	9.			
5.	<i>Poison Ivy</i>	FAC	V	10.			
<b>Percent of Dominant Species = OBL, FACW, or FAC (excluding FAC-)</b>		6/8=75%					
<b>Remarks:</b>		A prevalence of hydrophytic vegetation is present					

#### HYDROLOGY

Recorded Data (describe in remarks)		WETLAND HYDROLOGY INDICATORS			
		Primary Indicators:		Secondary Indicators:	
Gauge		Inundated		Oxidized Root Channels	
Aerial Photograph		Saturated (upper 12")		Water-stained Leaves	X
Other		Water Marks		Local Soil Survey Data	X
No Recorded Data Available	X	Drift Lines		FAC-Neutral Test	X
Depth of Surface Water (inches)	36	Sediment Deposits		Other (see remarks)	
Depth to Water in Pit (inches)	0	Drainage Patterns	X		
Depth to Saturated Soil (inches)	0				
<b>Remarks:</b>		Wetland hydrology is present			

#### SOILS

Series / Phase:		Cartecay		Confirmed Map Type?		Yes
Drainage Class:		Poorly Drained		Subgroup:		Aquic Udifluvents
Depth (inches)	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture / Concretions...	Indicators
0-5	Ap	10YR 4/3			Loam	Sulfitic Odor
5-12	Ap	7.5YR 4/1			Loam	Low Chroma / Gleyed Color
						Hydric Soils List (local / US)
						Concretions
						Organic Streaking
						Other (see remarks)
<b>Remarks:</b>						

#### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	X	Yes		No		Is this sampling point in a wetland?	X	Yes		No
Wetland Hydrology Present?	X	Yes		No						
Hydric Soils Present?	X	Yes		No						
<b>Remarks:</b>		The soils were observed to be saturated and poorly drained. Hydric soils are present								

<b>Project / Site:</b>	Barite Hills Nevada Gold Fields	<b>Date:</b>	6/12/07			
<b>Applicant / Owner:</b>	USEPA	<b>State:</b>	South Carolina			
<b>Investigator:</b>	Kyle Russell	<b>County:</b>	McCormick			
<b>Plot ID:</b>		<b>Do Normal Circumstances exist on site?</b>	X	YES		NO
<b>Transect ID:</b>	N/A	<b>Atypical Situation?</b>		YES	X	NO
<b>Community ID:</b>	N/A	<b>Is the area a potential problem area?</b>		YES	X	NO
<b>Remarks (use reverse side, if needed):</b>		Point labeled as WTD-10 1546PM				

#### VEGETATION

Dominant Plant Species		Indicator	Stratum	Dominant Plant Species		Indicator	Stratum
1.	<i>Carolina Ash</i>	OBL	T	6.	Common Green brier	V	FAC
2.	<i>Sugar Maple</i>	FACW	T	7.	Tulip Poplar	T	FACU
3.	<i>American Beauty Berry</i>	FACU-	SS	8.	Sweet Gum	T	FAC+
4.	<i>Chinese Privet</i>	FAC	SS	9.			
5.	<i>Poison Ivy</i>	FAC	V	10.			
<b>Percent of Dominant Species = OBL, FACW, or FAC (excluding FAC-)</b>		6/8=75%					
<b>Remarks:</b>		A prevalence of hydrophytic vegetation is present					

#### HYDROLOGY

Recorded Data (describe in remarks)		WETLAND HYDROLOGY INDICATORS			
		Primary Indicators:		Secondary Indicators:	
Gauge		Inundated Saturated (upper 12") Water Marks Drift Lines Sediment Deposits Drainage Patterns		Oxidized Root Channels	
Aerial Photograph				Water-stained Leaves	X
Other				Local Soil Survey Data	X
No Recorded Data Available	X			FAC-Neutral Test	X
Depth of Surface Water (inches)	n/a			Other (see remarks)	
Depth to Water in Pit (inches)	0				
Depth to Saturated Soil (inches)	0		X		
<b>Remarks:</b>		Wetland hydrology is present			

#### SOILS

Series / Phase:		Cartecay		Confirmed Map Type?		Yes
Drainage Class:		Poorly Drained		Subgroup:		Aquic Udifluvents
Depth (inches)	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture / Concretions...	Indicators
0-5	Ap	10YR 4/3			Loam	Sulfitic Odor
5-12	Ap	7.5YR 4/1			Loam	Low Chroma / Gleyed Color
						Hydric Soils List (local / US)
						Concretions
						Organic Streaking
						Other (see remarks)
<b>Remarks:</b>						

#### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	X	Yes		No		Is this sampling point in a wetland?	X	Yes		No
Wetland Hydrology Present?	X	Yes		No						
Hydric Soils Present?	X	Yes		No						
<b>Remarks:</b>		The soils were observed to be saturated and poorly drained. Hydric soils are present								

<b>Project / Site:</b>	Barite Hills Nevada Gold Fields	<b>Date:</b>	6/12/07			
<b>Applicant / Owner:</b>	USEPA	<b>State:</b>	South Carolina			
<b>Investigator:</b>	Kyle Russell	<b>County:</b>	McCormick			
<b>Plot ID:</b>		<b>Do Normal Circumstances exist on site?</b>	X	YES		NO
<b>Transect ID:</b>	N/A	<b>Atypical Situation?</b>		YES	X	NO
<b>Community ID:</b>	N/A	<b>Is the area a potential problem area?</b>		YES	X	NO
<b>Remarks (use reverse side, if needed):</b> Point labeled as WTD-11 1555PM, sheen on water present						

#### VEGETATION

Dominant Plant Species		Indicator	Stratum	Dominant Plant Species		Indicator	Stratum
1.	<i>Carolina Ash</i>	OBL	T	6.	Common Green brier	V	FAC
2.	<i>Sugar Maple</i>	FACW	T	7.	Tulip Poplar	T	FACU
3.	<i>American Beauty Berry</i>	FACU-	SS	8.	Sweet Gum	T	FAC+
4.	<i>Chinese Privet</i>	FAC	SS	9.			
5.	<i>Poison Ivy</i>	FAC	V	10.			
<b>Percent of Dominant Species = OBL, FACW, or FAC (excluding FAC-)</b>		6/8=75%					
<b>Remarks:</b> A prevalence of hydrophytic vegetation is present							

#### HYDROLOGY

Recorded Data (describe in remarks)		WETLAND HYDROLOGY INDICATORS			
		Primary Indicators:		Secondary Indicators:	
Gauge		Inundated		Oxidized Root Channels	
Aerial Photograph		Saturated (upper 12")		Water-stained Leaves	X
Other		Water Marks		Local Soil Survey Data	X
No Recorded Data Available	X	Drift Lines		FAC-Neutral Test	X
Depth of Surface Water (inches)	7	Sediment Deposits		Other (see remarks)	
Depth to Water in Pit (inches)	0	Drainage Patterns	X		
Depth to Saturated Soil (inches)	0				
<b>Remarks:</b> Wetland hydrology is present					

#### SOILS

Series / Phase:		Cartecay		Confirmed Map Type?		Yes
Drainage Class:		Poorly Drained		Subgroup:		Aquic Udifluvents
Depth (inches)	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture / Concretions...	Indicators
0-5	Ap	10YR 4/3			Loam	Sulfitic Odor
5-12	Ap	7.5YR 4/1			Loam	Low Chroma / Gleyed Color
						Hydric Soils List (local / US)
						Concretions
						Organic Streaking
						Other (see remarks)
<b>Remarks:</b>						

#### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	X	Yes		No		Is this sampling point in a wetland?	X	Yes		No
Wetland Hydrology Present?	X	Yes		No						
Hydric Soils Present?	X	Yes		No						
<b>Remarks:</b> The soils were observed to be saturated and poorly drained. Hydric soils are present										

<b>Project / Site:</b>	Barite Hills Nevada Gold Fields	<b>Date:</b>	6/12/07			
<b>Applicant / Owner:</b>	USEPA	<b>State:</b>	South Carolina			
<b>Investigator:</b>	Kyle Russell	<b>County:</b>	McCormick			
<b>Plot ID:</b>		<b>Do Normal Circumstances exist on site?</b>	X	YES		NO
<b>Transect ID:</b>	N/A	<b>Atypical Situation?</b>		YES	X	NO
<b>Community ID:</b>	N/A	<b>Is the area a potential problem area?</b>		YES	X	NO
<b>Remarks (use reverse side, if needed):</b>		Point labeled as WTD-12 1603PM, Northern most point of wetland area.				

#### VEGETATION

Dominant Plant Species		Indicator	Stratum	Dominant Plant Species		Indicator	Stratum
1.	<i>Carolina Ash</i>	OBL	T	6.	Common Green brier	V	FAC
2.	<i>Sugar Maple</i>	FACW	T	7.	Tulip Poplar	T	FACU
3.	<i>Sycamore</i>	FACW-	T	8.	Sweet Gum	T	FAC+
4.	<i>Chinese Privet</i>	FAC	SS	9.			
5.	<i>Poison Ivy</i>	FAC	V	10.			
<b>Percent of Dominant Species = OBL, FACW, or FAC (excluding FAC-)</b>		6/8=75%					
<b>Remarks:</b>		A prevalence of hydrophytic vegetation is present					

#### HYDROLOGY

Recorded Data (describe in remarks)		WETLAND HYDROLOGY INDICATORS			
		Primary Indicators:		Secondary Indicators:	
Gauge		Inundated Saturated (upper 12") Water Marks Drift Lines Sediment Deposits Drainage Patterns		Oxidized Root Channels Water-stained Leaves Local Soil Survey Data FAC-Neutral Test Other (see remarks)	
Aerial Photograph					
Other					
No Recorded Data Available	X				
Depth of Surface Water (inches)	n/a				
Depth to Water in Pit (inches)	0				
Depth to Saturated Soil (inches)	0				X
<b>Remarks:</b>		Wetland hydrology is not present			

#### SOILS

Series / Phase:		Toccoa		Confirmed Map Type?		Yes
Drainage Class:		Well drained to moderately well drained		Subgroup:		Thermic Typic Udifluvents
Depth (inches)	Horizon	Matrix Color	Mottle Color	Mottle Abundance	Texture / Concretions...	Indicators
0-12	Ap	5YR 4/3			Sandy Loam	Sulfitic Odor Low Chroma / Gleyed Color Hydric Soils List (local / US) Concretions Organic Streaking Other (see remarks)
<b>Remarks:</b>		Hydric soils are not present				

#### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	X	Yes		No		Is this sampling point in a wetland?		Yes	X	No
Wetland Hydrology Present?		Yes	X	No						
Hydric Soils Present?		Yes	X	No						
<b>Remarks:</b>										